

Missouri Assessment Program
Spring 2006

Mathematics

Anchor Pages for Released Items

Grade 3

9

Study the table below. The table shows the number of minutes the students from each grade study after school.

STUDY AFTER SCHOOL

Grade	3	4	5	6
Number of Minutes	15	25	35	45

Complete the table by continuing the pattern to show the number of minutes the students from Grade 6 study after school.

On the lines below, explain the *rule* used in the pattern.

The rule is $+10$

MAP Operational 2006
Grade 3 Math
Session 1 Item 9
Score Point: 2 ANCHOR
> Exemplary Response
> Correct answer of 45 for the table.
> Correct explanation indicating a difference of 10.

9

Study the table below. The table shows the number of minutes the students from each grade study after school.

STUDY AFTER SCHOOL

Grade	3	4	5	6
Number of Minutes	15	25	35	45

Complete the table by continuing the pattern to show the number of minutes the students from Grade 6 study after school.

On the lines below, explain the *rule* used in the pattern.

There going by 15's

<div> <div></div> <div></div> </div>
MAP Operational 2006 Grade 3 Math Session 1 Item 9 Score Point: 1 ANCHOR > One component correct. > Correct answer of 45 for the table. > Incorrect explanation, fails indicate a difference of 10 minutes at each grade or other valid explanation.

9

Study the table below. The table shows the number of minutes the students from each grade study after school.

STUDY AFTER SCHOOL

Grade	3	4	5	6
Number of Minutes	15	25	35	55

Complete the table by continuing the pattern to show the number of minutes the students from Grade 6 study after school.

On the lines below, explain the rule used in the pattern.

they counted by fives



MAP Operational 2006

Grade 3 Math

Session 1 Item 9

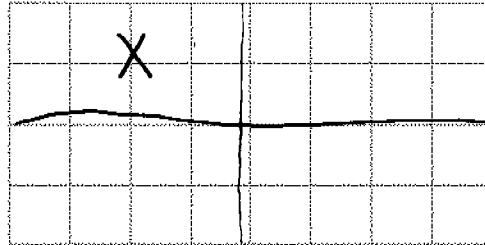
Score Point: 0 ANCHOR

> No components correct.

> Incorrect answer of 55 for the table.


> Incorrect explanation, fails to indicate a difference of 10 minutes at each grade or other valid explanation.

16 Study the figure below.

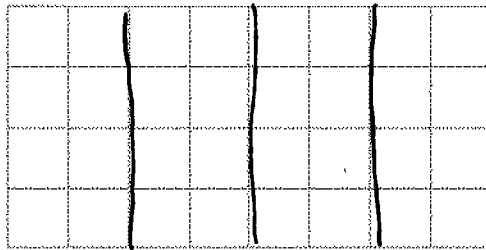


Draw lines on the figure to divide it into 4 equal parts.

Draw an X on $\frac{1}{4}$ of the figure.



MAP Operational 2006 Grade 3 Math Session 1 Item 16 Score Point: 2 ANCHOR > Exemplary Response. > Figure divided into 4 equal parts. > X drawn on 1/4 of the figure.

16 Study the figure below.



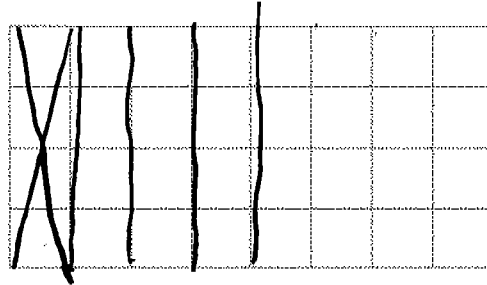
Draw lines on the figure to divide it into 4 equal parts.

Draw an X on $\frac{1}{4}$ of the figure.




MAP Operational 2006
Grade 3 Math
Session 1 Item 16
Score Point: 1 ANCHOR
> One correct component.
> Figure divided into 4 equal parts.
> X not drawn.

16 Study the figure below.



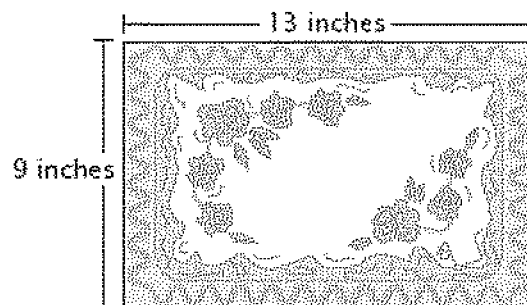
Draw lines on the figure to divide it into 4 equal parts.

Draw an X on $\frac{1}{4}$ of the figure.



MAP Operational 2006
Grade 3 Math
Session 1 Item 16
Score Point: 0 ANCHOR
> No correct components
> Figure not divided into 4 equal parts.
> X not on $\frac{1}{4}$ of the figure.

- 23 Study the cake shown below.



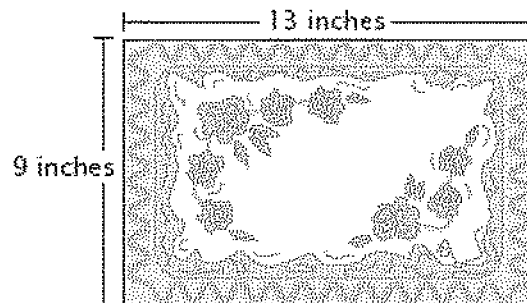
What is the perimeter of the cake? In the box below, show your work and write your answer on the line.

$$\begin{array}{r} 13 \\ + 13 \\ \hline 26 \end{array} \quad \begin{array}{r} 26 \\ + 9 \\ \hline 35 \end{array} \quad \begin{array}{r} 35 \\ + 9 \\ \hline 44 \text{ inches} \end{array}$$

44 inches

MAP Operational 2006
Grade 3 Math
Session 1 Item 23
Score Point: 2 ANCHOR
> Exemplary Response.
> Two components correct.
> Correct process.
> Correct answer of 44.

- 23 Study the cake shown below.



What is the perimeter of the cake? In the box below, show your work and write your answer on the line.

$9 + 9 + 13 + 13 =$

$$\begin{array}{r} 13 \\ 13 \\ + 9 \\ + 9 \\ \hline 34 \end{array}$$

34 inches

MAP Operational 2006

Grade 3 Math

Session 1 Item 23

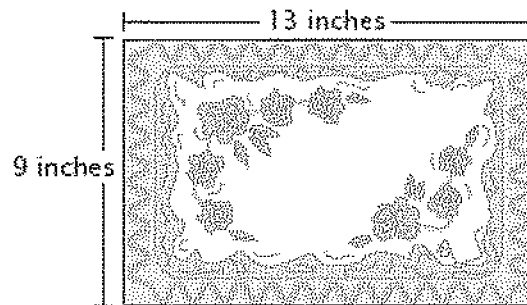
Score Point: 1 ANCHOR

> One component correct.

> Correct process with an error in computation.

> Incorrect answer of 34.

23 Study the cake shown below.



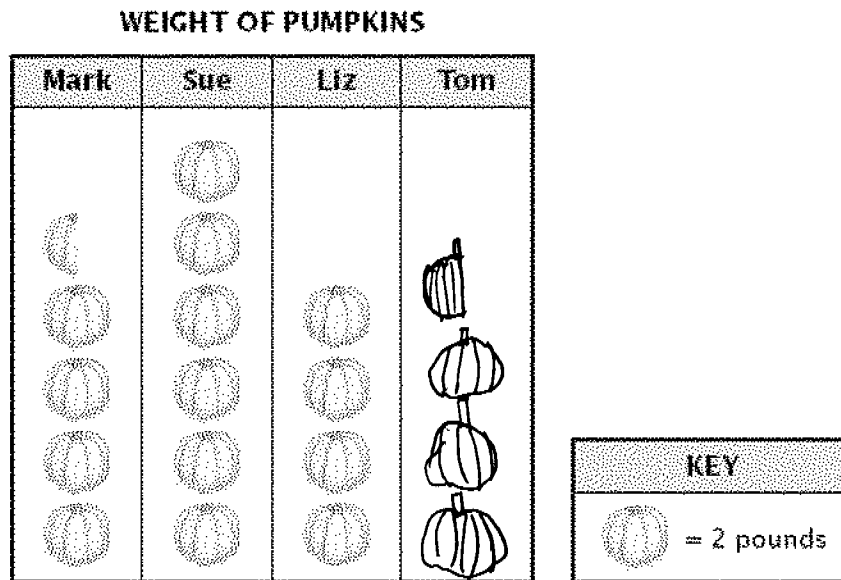
What is the perimeter of the cake? In the box below, show your work and write your answer on the line.

$$\begin{array}{r} 13 \\ 9 \\ \hline 22 \end{array}$$

22 inches

MAP Operational 2006
Grade 3 Math
Session 1 Item 23
Score Point: 0 ANCHOR
> No components correct.
> Incorrect process.
> Incorrect answer of 22.


- 27** Ms. Wilson's class visited a pumpkin patch. Each student got to select 1 pumpkin. The picture graph below shows the weight of the pumpkins three students picked.



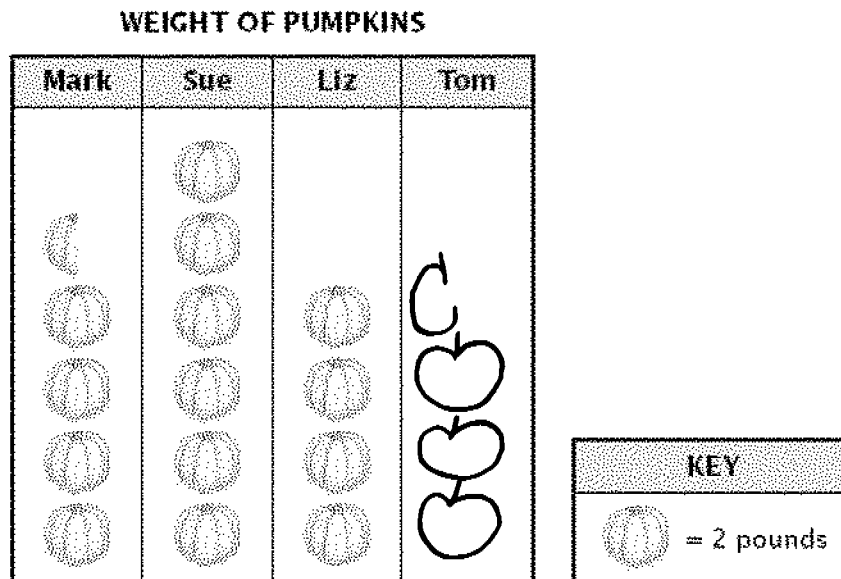
How much does Mark's pumpkin weigh?

9 pounds

Tom's pumpkin weighs 7 pounds. Draw the pumpkins on the picture graph to show the weight of Tom's pumpkin.

	<p>MAP Operational 2006 Grade 3 Math Session 1 Item 27 Score Point: 2 ANCHOR > Exemplary Response-- Contains two correct components. > Correct graph. > Correct answer of 9.</p>
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- 27 Ms. Wilson's class visited a pumpkin patch. Each student got to select 1 pumpkin. The picture graph below shows the weight of the pumpkins three students picked.



How much does Mark's pumpkin weigh?

8 $\frac{1}{2}$ pounds

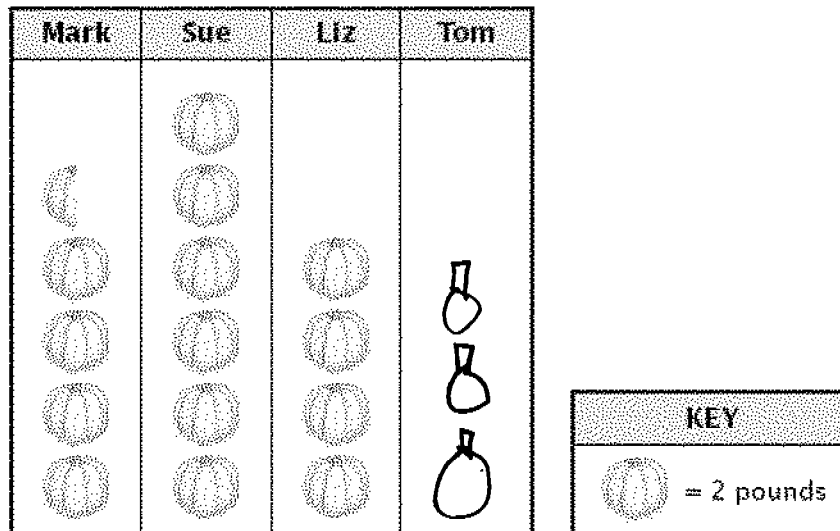
Tom's pumpkin weighs 7 pounds. Draw the pumpkins on the picture graph to show the weight of Tom's pumpkin.


MAP Operational 2006 Grade 3 Math Session 1 Item 27 Score Point: 1 ANCHOR > Contains one correct component. > Correct graph. > Incorrect answer of 8 1/2.

27

Ms. Wilson's class visited a pumpkin patch. Each student got to select 1 pumpkin. The picture graph below shows the weight of the pumpkins three students picked.


WEIGHT OF PUMPKINS



How much does Mark's pumpkin weigh?

8 / 12 pounds

Tom's pumpkin weighs 7 pounds. Draw the pumpkins on the picture graph to show the weight of Tom's pumpkin.

	<p>MAP Operational 2006 Grade 3 Math Session 1 Item 27 Score Point: 0 ANCHOR > Contains no correct components. > Incorrect graph. > Incorrect answer of 8 / 12.</p>
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